

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Application No. : 10/567,571 Confirmation No. 9294
Applicant(s) : Peter BOEHLAND et al.
Filed : February 8, 2006
Group Art Unit : 3752
Examiner : Christopher S. Kim
Docket No. : R.305609

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Date: September 19, 2008

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(c),
AND EXPLANATION OF THE RELEVANCE OF THE CITED PRIOR ART**

Sir:

The undersigned hereby requests that the prior art cited on the attached prior art statement be placed of record in the application file.

This citation of prior art is made under 37 CFR 1.97(c), since it is being filed prior to any Final Action, and is being accompanied by the fee of \$180 as set forth in 37 CFR 1.17(p).

The relevance of the prior art cited on the attached form PTO/SB/08a is as follows:

JP 2000-507327

The present invention relates to a fuel injection device for internal combustion engines, comprising a high pressure pump (1) fitted with a common high pressure collector (Common Rail) to be filled with fuel. Said collector is connected through injection pipes (9) to injection valves (11) emerging into the combustion chamber of the engine. The opening and closing motion of said valves is controlled by an electrically driven pilot valve (13) designed as a 3/2-way valve which connects a high pressure channel (29) opening out into an injection opening of the injection valve (11) to an injection pipe (9) or a discharge pipe (33). On the rod (25) of the pilot valve (13) there is a hydraulic working chamber (51), which is filled with HP fuel and can be handled so as to adjust the position of the pilot valve (13) rod (25) in the discharge channel (57).

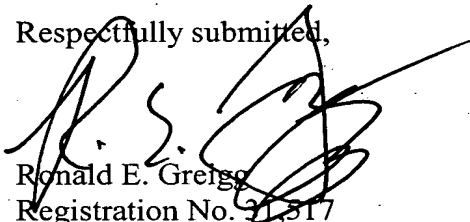
JP 2001-159382

The purpose of this invention is to provide a fuel injection nozzle permitting the simplification and cost reduction of a device. This fuel injection nozzle is provided with an inner needle valve 1 fittingly inserted in an outer needle valve 11, a fuel inflow passage 37 for leading fuel to a branch part P1, a fuel passage 15 for feeding fuel from one side outflow port c of the branch part, to injection holes 11e, 16, a fuel passage 25 allowing fuel from the other side outflow port d to flow to a fuel discharge port 42 and communicating with a pressure chamber 35, an outer rod member 29 and an inner rod member 32 arranged in concentric combination with each other in a nozzle body 26 to transmit spring force in a valve closing direction X to both outer and inner needle valves 11, 12, a pressure piston 28 positioned abutting on the outer rod member 29 at one end and facing the pressure chamber 35 at the other end to apply valve closing force to the outer needle valve 11, and a valve device 36 interposed at the branch part P1 and shiftable into a state of cutting off fuel, a state of supplying fuel to both first and second fuel passages 15, 25, and a state of supplying fuel to the first fuel passage 15.

The Commissioner is hereby authorized to charge payment of the fee of \$180, or any/all fees associated with this communication to Deposit Account 07-2100.

Examination of this application is respectfully requested.

Respectfully submitted,



Ronald E. Greigg
Registration No. 31,317
Attorney for Applicant(s)
Customer No. 02119

GREIGG & GREIGG, P.L.L.C.
1423 Powhatan Street, Unit One
Alexandria, VA 22314

Telephone: 703-838-5500
Facsimile: 703-838-5554

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Enclosures

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